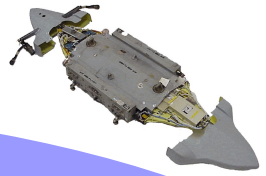
JSOW

Harpoon

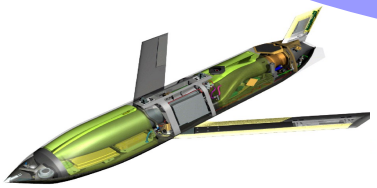
LGB

RACKS

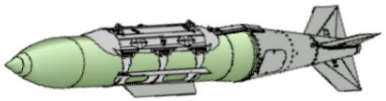


SLAM-ER

WATRB XII
May 2004
Conventional Strike Weapons



JASSM



JDAM

PADs/CADs

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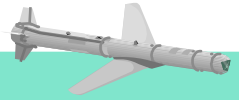
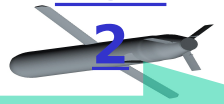
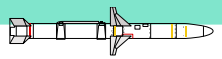
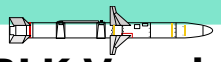
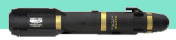
Strike Weapons
(Draft)

	TODAY	FYDP	2012	2020
LR Standoff	 SLAM ER	SLAM ER, JASSM TLAM Blk III / TACTOM	 SLAM ER, JASSM TLAM Blk III / TACTOM	TACTOM JASSM (HSW)
MR Standoff	JSOW "A"  HARM BLK V	JSOW "A" and "C"  HARM BLK V and AARGM	JSOW AARGM SDB II	JSOW AARGM SDB II
Direct Attack	Maverick JDAM LGB, GBU-24 2.75"/5.00" ROCKET, GP Bombs	Maverick JDAM 82, 83, 84 GBU 24, LGB APKWS, GP Bombs	JDAM LGB JCM, APKWS GP Bombs	JDAM JCM, APKWS GP Bombs
Moving/Mobile Target	GP Bombs, LGB TOW / HELLFIRE	JCM  HELLFIRE	JCM SDB II	JCM SDB II

Draft

Enabling Technology

- Moving Targets (Data link + seeker)
- Data link
  - Conformal broadband antenna (200 MHz – 1.8 GHz)
  - Broadband PA
  - Multi-band capable transceiver (JTRS/SCA compliant)
- Seeker (RF, IIR, MMW, multimode, LADAR)
- ATC/ATCL/ATR (EO/IR/SAR)
- BIA/BHI (image compression)
- Fuze (reliability, HDBT)
- Power source
- IMU (accuracy, cost)
- Jam resistant technology for GPS weapons
- Payload (DE, penetrator, UXO, IM)
- High Speed Engine (hypersonic)
- Internal Carriage Bomb Racks (CAD-less)

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Suggested Guidelines
(Examples)

- **Think lower unit cost**
  - No silver bullet
  - No perfect solution
- **Be sensitive to NRE cost**
- **Be very very sensitive to LCC**
- **Use open system architecture and standards**
  - JTRS/SCA, TADIL-J, VMF, MIL-STD-3014, MIL-STD-1316, JPEG2000 etc
- **Interoperable**
  - avoid any solution that requires a new and proprietary infrastructure
- **No special logistic requirements**
- **Illudium Q-36 Explosive Space Modula r**
- **Keep things affordable**